

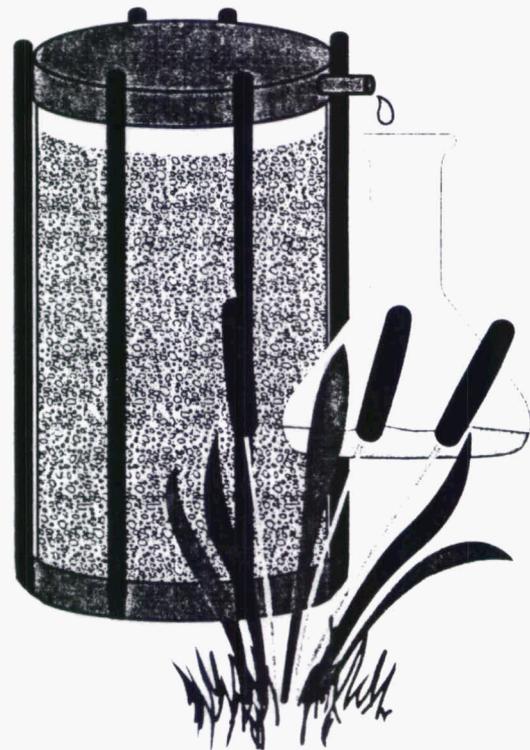
# Environmental Sciences Laboratory

## Data Package for Saturated Zone Column Test Location T01-02

### Monticello Mill Tailings Site Operable Unit III

June 2002

Prepared for  
U.S. Department of Energy  
Grand Junction Office  
Grand Junction, Colorado



MIRAP OUIII AR 661 8-6 DATA PACKAGE  
DATA PACKAGE FOR SATURATED ZONE COLUMN TEST  
LOCATION T01-02 MONTICELLO SITE 6/02



Work Performed Under DOE Contract No. DE-AC13-96GJ87335  
DOE Task Order No. MAC02-05

WORK SUBMITTAL TO ENVIRONMENTAL SCIENCES LABORATORY

Submittal Date 3/10/02 Date Required \_\_\_\_\_  
Submitted By T Butlett Signature T Butlett by sm  
Formal Report Required (check one)? Yes \_\_\_\_\_ No   
Project: Manduca 003 Charge No. 3607-05-012  
Analysis Type (check one): Kd \_\_\_\_\_ Leaching \_\_\_\_\_ Other  column

Sample Numbers T01-02  
\_\_\_\_\_  
\_\_\_\_\_

Analytes 10hr collect: As, U, V, Se, Mo, Mn Pb210@ACL; pH, ORP, Cond alk @ESL  
2hr collect: As U V Se, Mo Mn; pH, ORP, alk, Cond U @ESL

Solution Composition Syn 92-05 see attached recipe  
then Br<sup>-</sup> tracer

Comments (attach procedure if needed)  
3/14 Saturated zone column test. One sample of  
aluminum will arrive = 3/28/02 see attached email  
3/14 S. Morrison to Tim, they want data only. @ESL  
report  
4/08 see attached email - submit soil split

Tracking (ESL use only):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Actual Labor Hours (ESL use only):  
\_\_\_\_\_

## Sarah Morris

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**From:** Stan Morrison  
**nt:** Tuesday, March 12, 2002 11:30 AM  
**:** Sarah Morris  
**Subject:** FW: Monticello OU3 work

Sarah,

When the samples arrive, be sure to prepare a Job Submittal. Find out if they want an ESL report. Document their response (email preferred). I want to keep track of the desire for ESL reports for future communication with PM and DOE. Make sure you have good documentation on the recnet Ken Pill Moab project that did not want a report. Do we have a Job Submittal for the Monticello PRB sampling were doing?

Stan

-----Original Message-----

**From:** Timothy Bartlett  
**Sent:** Tuesday, March 12, 2002 11:09 AM  
**To:** Stan Morrison; Kristen Mcclellen  
**Subject:** Monticello OU3 work

Stan: Here are two work items the ESL needs to perform for Monticello OU 3 Interim Remedial Action:

1. One column leaching test using the same procedures/test parameters as for previous Monticello OU3 saturated zone column tests. One sample of alluvium will be provided in approximately 1 to 2 weeks.
2. Distilled water leach of a sample of Mancos Fm. shale with leachate analyzed at Analytical Chem. Lab of selenium. I'm guessing a 24-hr agitated leach of lightly crushed sample? Sample will be delivered with alluvium.



## Sarah Morris

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**From:** Timothy Bartlett  
**nt:** Monday, April 08, 2002 10:25 AM  
**Subject:** Stan Morrison; Sarah Morris; Kristen Mcclellen  
FW: Monticello OU3 work

Stan/Sarah: Please proceed with item #1 and hold off on item #2 until further notice. The sample for the saturated zone column test is T01-02. I will deliver it to the ESL Monday 4/8/02 AM. Please also submit a split of the sample for analysis of metals at the Analytical Chemistry Laboratory, as done for previous OU III column tests.  
Tim.

-----Original Message-----

**From:** Timothy Bartlett  
**Sent:** Tuesday, March 12, 2002 11:09 AM  
**To:** Stan Morrison; Kristen Mcclellen  
**Subject:** Monticello OU3 work

Stan: Here are two work items the ESL needs to perform for Monticello OU 3 Interim Remedial Action:

1. One column leaching test using the same procedures/test parameters as for previous Monticello OU3 saturated zone column tests. One sample of alluvium will be provided in approximately 1 to 2 weeks.
2. Distilled water leach of a sample of Mancos Fm. shale with leachate analyzed at Analytical Chem. Lab for selenium. I'm guessing a 24-hr agitated leach of lightly crushed sample? Sample will be delivered with alluvium.

NOV3-02-10-01

|         | 1  | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---------|----|---|---|---|---|---|---|---|---|----|----|----|----|
|         | 1  | Received from J. Boutlett 2 ziplock bags with soil sample MSG T01-02              |   |   |   |   |   |   |   |    |    |    |    |
|         | 2  | Place in drying pans to air dry   |   |   |   |   |   |   |   |    |    |    |    |
| 4/23/02 | 3  | Soil is dry. Sieve to < 3 mesh (6.68mm)   |   |   |   |   |   |   |   |    |    |    |    |
|         | 4  | Fill 2" column. Net weight of soil = 130.9g. Assemble pump and fraction collector |   |   |   |   |   |   |   |    |    |    |    |
|         | 5  | Pump has size 16 head. Fraction collector set for 10hr/2hr collection             |   |   |   |   |   |   |   |    |    |    |    |
| 4/25    | 6  | Prepare 4L Syn 92-05 water. pH adjust to 6.7 = conc HNO <sub>3</sub>              |   |   |   |   |   |   |   |    |    |    |    |
| 0725    | 7  | Begin flow to column @ 0.8ml/min. Diluting pumped to bottom of column             |   |   |   |   |   |   |   |    |    |    |    |
| 1200    | 8  | pump shut off - plug switched off -   |   |   |   |   |   |   |   |    |    |    |    |
| 1500    | 9  | Restart flow to column.   |   |   |   |   |   |   |   |    |    |    |    |
| 1852    | 10 | first outflow. Start fraction collector   |   |   |   |   |   |   |   |    |    |    |    |
| 4/26    | 11 | Column running well   |   |   |   |   |   |   |   |    |    |    |    |
| 4/28    | 12 | Column running well. Add 4L Syn 92-05, pH adjust to 6.7 to source tank            |   |   |   |   |   |   |   |    |    |    |    |
| 4/29    | 13 | Column running well   |   |   |   |   |   |   |   |    |    |    |    |
| 4/30    | 14 | DC flow to column.  |   |   |   |   |   |   |   |    |    |    |    |
|         | 15 | Split samples. 10hr split, submitted for As, U, V, Mo, Mn, Se Pb <sup>210</sup>   |   |   |   |   |   |   |   |    |    |    |    |
|         | 16 | 2hr splits submitted for As, U, V, Mo, Mn, Se                                     |   |   |   |   |   |   |   |    |    |    |    |
|         | 17 | Retain 15ml split in ESL for U analysis   |   |   |   |   |   |   |   |    |    |    |    |
| 5/7/02  | 18 | submit samples NDR 636-655 to ACL Reg # 17944                                     |   |   |   |   |   |   |   |    |    |    |    |
|         | 19 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 20 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 21 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 22 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 23 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 24 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 25 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 26 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 27 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 28 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 29 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 30 |   |   |   |   |   |   |   |   |    |    |    |    |
|         | 31 |   |   |   |   |   |   |   |   |    |    |    |    |





**Grand Junction Office**

2597 B 3/4 Road  
Grand Junction, Colorado 81503  
Telephone (970) 248-8000

**Chain-of-Sample Custody**

1. Page 1 of 2  
2. Date 5/1/02

3. Project Name Monticello  
4. Site Location 003

**11. Containers**

|       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 60001 | 60002 | 60003 | 60004 | 60005 | 60006 | 60007 | 60008 | 60009 | 60010 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

5. Sampler (print name) S. J. Williams

| 6. Sample No. | 7. Date | 8. Time | 9. Sample Location | 10. Sample Matrix | 11. Containers |   |   |   |   |   |  |  |  |  | 12. Remarks | 13. Condition Received |  |
|---------------|---------|---------|--------------------|-------------------|----------------|---|---|---|---|---|--|--|--|--|-------------|------------------------|--|
| NDR 636       | 4/15/02 | 0452    | M56-T01-02-1.2     | H <sub>2</sub> O  | 1              | 1 |   |   |   |   |  |  |  |  |             |                        |  |
| 637           |         | 0652    | -1.4               |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |
| 638           |         | 1052    | -2.3               |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |
| 639           | ↓       | 1552    | -3.0               |                   |                |   |   | 1 |   |   |  |  |  |  |             |                        |  |
| 640           | 4/15/02 | 0452    | -4.4               |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |
| 641           |         | 0752    | -4.7               |                   |                |   |   | 1 |   |   |  |  |  |  |             |                        |  |
| 642           |         | 1052    | -6.0               |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |
| 643           | ↓       | 1352    | -6.3               |                   |                |   |   | 1 |   |   |  |  |  |  |             |                        |  |
| 644           | 4/15/02 | 0452    | -7.6               |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |
| 645           |         | 1052    | -7.9               |                   |                |   |   | 1 |   |   |  |  |  |  |             |                        |  |
| 646           |         | 1152    | -9.2               |                   |                |   |   |   | 1 |   |  |  |  |  |             |                        |  |
| 647           | ↓       | 1352    | -9.5               |                   |                |   |   |   |   | 1 |  |  |  |  |             |                        |  |
| 648           | 4/29/02 | 0052    | -10.9              |                   |                |   | 1 |   |   |   |  |  |  |  |             |                        |  |

|  |                |               |                             |      |      |                             |      |      |
|--|----------------|---------------|-----------------------------|------|------|-----------------------------|------|------|
| 14. Relinquished by (signature)<br><u>S. J. Williams</u> | Date<br>5/1/02 | Time<br>11:00 | Relinquished by (signature) | Date | Time | Relinquished by (signature) | Date | Time |
| Received by (signature)<br><u>[Signature]</u>            | Date<br>5/1/02 | Time<br>11:00 | Received by (signature)     | Date | Time | Received by (signature)     | Date | Time |

15. Method of Shipment \_\_\_\_\_ 16. Laboratory/Destination \_\_\_\_\_ 17. Airbill or Receipt Number \_\_\_\_\_

18. For Contract Laboratories Only—Receiver to sign, date, and return form by mail or with analytical data package  
Company Name \_\_\_\_\_ Received by \_\_\_\_\_ Date \_\_\_\_\_





|    | A   | B     | C  | D    | E       | F       | G    | H        | I      | J       | K      | L    | M       | N    | O      | P      | Q        |
|----|---|-------|--|------|---------|---------|------|----------|--------|---------|--------|------|---------|------|--------|--------|----------|
| 1  | MSG T01-02 Column Test  |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 2  | 1309 g of <3 mesh (<6.68 mm) soil, air dried  |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 3  | Use Syn 92-05 water pH adjusted to 6.7  |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 4  | Flow = 0.8mL/min.   |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 5  | 507 min to fill column @0.74mL/min, 1 pore volume = 375 mL, Porosity = 0.39 [375/953 (known empty vol)] |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 6  |   |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 7  | Date  | Time  | ET   | Vol  | Cum Vol | Collect | Rate | Pore Vol | ACL #  | Collect | U      | pH   | EC      | ORP  | ALK    | Br     | Br Spike |
| 8  |   |       | (hr)   | (mL) | (mL)    | Time    | (mL/ | (1=      |        | #       | (ug/L) |      | (uS/cm) | (mV) | (mg/L  | (mg/L) | Recovery |
| 9  |   |       |  |      |         | (min)   | min) | 375mL)   |        |         |        |      |         |      | CaCO3) |        |          |
| 10 |   |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 11 | #####   | 4:52  | 10   | 447  | 447     | 600     | 0.75 | 1.19     | NDR636 | 1-1     | 611.5  | 7.59 | 2720    | 184  | 190    |        |          |
| 12 |   | 6:52  | 12   | 90   | 537     | 120     | 0.75 | 1.43     | 637    | 1-2     | 558.5  |      |         |      |        |        |          |
| 13 |   | 16:52 | 22   | 503  | 1040    | 600     | 0.84 | 2.77     | 638    | 2-1     | 508.1  | 8.11 | 2170    | 177  | 170    |        |          |
| 14 |   | 18:52 | 24   | 100  | 1140    | 120     | 0.83 | 3.04     | 639    | 2-2     | 439.5  |      |         |      |        |        |          |
| 15 | #####   | 4:52  | 34   | 503  | 1643    | 600     | 0.84 | 4.38     | 640    | 3-1     | 380.6  | 8.15 | 2100    | 176  | 180    |        |          |
| 16 |   | 6:52  | 36   | 100  | 1743    | 120     | 0.83 | 4.65     | 641    | 3-2     | 327    |      |         |      |        |        |          |
| 17 |   | 16:52 | 46   | 508  | 2251    | 600     | 0.85 | 6.00     | 642    | 4-1     | 274    | 8.04 | 2060    | 175  | 190    |        |          |
| 18 |   | 18:52 | 48   | 101  | 2352    | 120     | 0.84 | 6.27     | 643    | 4-2     | 239.8  |      |         |      |        |        |          |
| 19 | #####   | 4:52  | 58   | 509  | 2861    | 600     | 0.85 | 7.63     | 644    | 5-1     | 224.3  | 7.95 | 2040    | 177  | 200    |        |          |
| 20 |   | 6:52  | 60   | 100  | 2961    | 120     | 0.83 | 7.90     | 645    | 5-2     | 206.2  |      |         |      |        |        |          |
| 21 |   | 16:52 | 70   | 504  | 3465    | 600     | 0.84 | 9.24     | 646    | 6-1     | 187.9  | 8.21 | 2060    | 174  | 170    |        |          |
| 22 |   | 18:52 | 72   | 100  | 3565    | 120     | 0.83 | 9.51     | 647    | 6-2     | 251.7  |      |         |      |        |        |          |
| 23 | #####   | 4:52  | 82   | 504  | 4069    | 600     | 0.84 | 10.85    | 648    | 7-1     | 372.6  | 8.24 | 2020    | 176  | 320    |        |          |
| 24 |   | 6:52  | 84   | 101  | 4170    | 120     | 0.84 | 11.12    | 649    | 7-2     | 354.5  |      |         |      |        |        |          |
| 25 |   | 16:52 | 94   | 511  | 4681    | 600     | 0.85 | 12.48    | 650    | 8-1     | 282.6  | 8.09 | 2030    | 178  | 390    |        |          |
| 26 |   | 18:52 | 96   | 100  | 4781    | 120     | 0.83 | 12.75    | 651    | 8-2     | 223.3  |      |         |      |        |        |          |
| 27 | #####   | 4:52  | 106  | 506  | 5287    | 600     | 0.84 | 14.10    | 652    | 9-1     | 181.3  | 7.88 | 1970    | 180  | 300    |        |          |
| 28 |   | 6:52  | 108  | 101  | 5388    | 120     | 0.84 | 14.37    | 653    | 9-2     | 144.5  |      |         |      |        |        |          |
| 29 |   | 16:52 | 118  | 514  | 5902    | 600     | 0.86 | 15.74    | 654    | 10-1    | 120    | 7.78 | 1900    | 222  | 330    |        |          |
| 30 |   | 18:52 | 120  | 102  | 6004    | 120     | 0.85 | 16.01    | 655    | 10-2    | 110.2  |      |         |      |        |        |          |
| 31 |   |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 32 |   |       |  |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 33 | #####   | 7:55  | Restart flow to column w/Syn 92-05 spiked w/100 mg/L Br (1.288g/LNaBR), ph adj 6.7 |      |         |         |      |          |        |         |        |      |         |      |        |        |          |
| 34 |   |       |  | 25   | 6004    | 30      | 0.83 | 16.01    |        | 1       |        |      |         |      |        | <1     |          |
| 35 |   |       |  | 121  | 6029    | 30      | 0.83 | 16.08    |        | 2       |        |      |         |      |        | <1     |          |
| 36 |   |       |  | 25   | 6054    | 30      | 0.83 | 16.14    |        | 3       |        |      |         |      |        | <1     |          |

|    | A | B | C   | D  | E    | F  | G    | H     | I | J  | K | L | M | N | O | P       | Q    |
|----|---|---|-----|----|------|----|------|-------|---|----|---|---|---|---|---|---------|------|
| 37 |   |   | 122 | 25 | 6079 | 30 | 0.83 | 16.21 |   | 4  |   |   |   |   |   | <1      |      |
| 38 |   |   |     | 25 | 6104 | 30 | 0.83 | 16.28 |   | 5  |   |   |   |   |   | <1      |      |
| 39 |   |   | 123 | 25 | 6129 | 30 | 0.83 | 16.34 |   | 6  |   |   |   |   |   | <1      |      |
| 40 |   |   |     | 25 | 6154 | 30 | 0.83 | 16.41 |   | 7  |   |   |   |   |   | 2.86    |      |
| 41 |   |   | 124 | 25 | 6179 | 30 | 0.83 | 16.48 |   | 8  |   |   |   |   |   | 6.79    |      |
| 42 |   |   |     | 25 | 6204 | 30 | 0.83 | 16.54 |   | 9  |   |   |   |   |   | 21.44   |      |
| 43 |   |   | 125 | 25 | 6229 | 30 | 0.83 | 16.61 |   | 10 |   |   |   |   |   | 64.77   | 101% |
| 44 |   |   |     | 25 | 6254 | 30 | 0.83 | 16.68 |   | 11 |   |   |   |   |   | 136.54  |      |
| 45 |   |   | 126 | 25 | 6279 | 30 | 0.83 | 16.74 |   | 12 |   |   |   |   |   | 238.72  |      |
| 46 |   |   |     | 25 | 6304 | 30 | 0.83 | 16.81 |   | 13 |   |   |   |   |   | 344.60  |      |
| 47 |   |   | 127 | 25 | 6329 | 30 | 0.83 | 16.88 |   | 14 |   |   |   |   |   | 444.40  |      |
| 48 |   |   |     | 25 | 6354 | 30 | 0.83 | 16.94 |   | 15 |   |   |   |   |   | 559.52  |      |
| 49 |   |   | 128 | 25 | 6379 | 30 | 0.83 | 17.01 |   | 16 |   |   |   |   |   | 645.88  |      |
| 50 |   |   |     | 25 | 6404 | 30 | 0.83 | 17.08 |   | 17 |   |   |   |   |   | 717.73  |      |
| 51 |   |   | 129 | 25 | 6429 | 30 | 0.83 | 17.14 |   | 18 |   |   |   |   |   | 772.88  |      |
| 52 |   |   |     | 25 | 6454 | 30 | 0.83 | 17.21 |   | 19 |   |   |   |   |   | 812.19  |      |
| 53 |   |   | 130 | 25 | 6479 | 30 | 0.83 | 17.28 |   | 20 |   |   |   |   |   | 849.26  | 80%  |
| 54 |   |   |     | 25 | 6504 | 30 | 0.83 | 17.34 |   | 21 |   |   |   |   |   | 870.86  |      |
| 55 |   |   | 131 | 25 | 6529 | 30 | 0.83 | 17.41 |   | 22 |   |   |   |   |   | 902.53  |      |
| 56 |   |   |     | 25 | 6554 | 30 | 0.83 | 17.48 |   | 23 |   |   |   |   |   | 918.63  |      |
| 57 |   |   | 132 | 25 | 6579 | 30 | 0.83 | 17.54 |   | 24 |   |   |   |   |   | 932.37  |      |
| 58 |   |   |     | 25 | 6604 | 30 | 0.83 | 17.61 |   | 25 |   |   |   |   |   | 952.31  |      |
| 59 |   |   | 133 | 25 | 6629 | 30 | 0.83 | 17.68 |   | 26 |   |   |   |   |   | 954.70  |      |
| 60 |   |   |     | 25 | 6654 | 30 | 0.83 | 17.74 |   | 27 |   |   |   |   |   | 963.67  |      |
| 61 |   |   | 134 | 25 | 6679 | 30 | 0.83 | 17.81 |   | 28 |   |   |   |   |   | 981.03  |      |
| 62 |   |   |     | 25 | 6704 | 30 | 0.83 | 17.88 |   | 29 |   |   |   |   |   | 986.19  |      |
| 63 |   |   | 135 | 25 | 6729 | 30 | 0.83 | 17.94 |   | 30 |   |   |   |   |   | 991.62  | 74%  |
| 64 |   |   |     | 25 | 6754 | 30 | 0.83 | 18.01 |   | 31 |   |   |   |   |   | 983.58  |      |
| 65 |   |   | 136 | 25 | 6779 | 30 | 0.83 | 18.08 |   | 32 |   |   |   |   |   | 1003.93 |      |
| 66 |   |   |     | 25 | 6804 | 30 | 0.83 | 18.14 |   | 33 |   |   |   |   |   | 1013.26 |      |
| 67 |   |   | 137 | 25 | 6829 | 30 | 0.83 | 18.21 |   | 34 |   |   |   |   |   | 1020.96 |      |
| 68 |   |   |     | 25 | 6854 | 30 | 0.83 | 18.28 |   | 35 |   |   |   |   |   | 1021.71 |      |
| 69 |   |   | 138 | 25 | 6879 | 30 | 0.83 | 18.34 |   | 36 |   |   |   |   |   | 1026.12 |      |
| 70 |   |   |     | 25 | 6904 | 30 | 0.83 | 18.41 |   | 37 |   |   |   |   |   | 1034.04 |      |
| 71 |   |   | 139 | 25 | 6929 | 30 | 0.83 | 18.48 |   | 38 |   |   |   |   |   | 1030.59 |      |
| 72 |   |   |     | 25 | 6954 | 30 | 0.83 | 18.54 |   | 39 |   |   |   |   |   | 1032.22 |      |

|    | A | B | C   | D  | E    | F  | G    | H     | I | J                     | K | L | M | N | O | P       | Q   |
|----|---|---|-----|----|------|----|------|-------|---|-----------------------|---|---|---|---|---|---------|-----|
| 73 |   |   | 140 | 25 | 6979 | 30 | 0.83 | 18.61 |   | 40                    |   |   |   |   |   | 1031.62 | 73% |
| 74 |   |   |     | 25 | 7004 | 30 | 0.83 | 18.68 |   | 41                    |   |   |   |   |   | 1033.61 |     |
| 75 |   |   | 141 | 25 | 7029 | 30 | 0.83 | 18.74 |   | 42                    |   |   |   |   |   | 1038.39 |     |
| 76 |   |   |     | 25 | 7054 | 30 | 0.83 | 18.81 |   | 43                    |   |   |   |   |   | 1042.48 |     |
| 77 |   |   | 142 | 25 | 7079 | 30 | 0.83 | 18.88 |   | 44                    |   |   |   |   |   | 1034.98 |     |
| 78 |   |   |     | 25 | 7104 | 30 | 0.83 | 18.94 |   | 45                    |   |   |   |   |   | 1046.72 |     |
| 79 |   |   | 143 | 25 | 7129 | 30 | 0.83 | 19.01 |   | 46                    |   |   |   |   |   | 1043.38 |     |
| 80 |   |   |     | 25 | 7154 | 30 | 0.83 | 19.08 |   | 47                    |   |   |   |   |   | 1048.15 |     |
| 81 |   |   | 144 | 25 | 7179 | 30 | 0.83 | 19.14 |   | 48                    |   |   |   |   |   | 1048.27 |     |
| 82 |   |   |     | 25 | 7204 | 30 | 0.83 | 19.21 |   | 49                    |   |   |   |   |   | 1050.17 | 77% |
| 83 |   |   |     |    |      |    |      |       |   | Source tank check # 1 |   |   |   |   |   | 1061.57 |     |